

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-3. (Canceled)

4. (Previously Presented) A rolling element for a continuously variable transmission, including input and output disks and a power roller interposed between the input and output disks, the power roller including an inner race, an outer race and a plurality of rolling members interposed between the inner and outer races, the input and output disks and the inner race having rolling contact surfaces coming into rolling contact with each other via lubricating oil, the inner and outer races having rolling contact surfaces coming into rolling contact with the rolling members via lubricating oil, the rolling element comprising:

a nickel-based coat formed on at least one of the rolling contact surfaces, the nickel-based coat having a thickness ranging from 0.1 to 20  $\mu\text{m}$ ,

wherein the nickel-based coat has a surface roughness of not more than 0.1 in terms of arithmetical mean roughness Ra.

5. (Previously Presented) A rolling element for a continuously variable transmission, including input and output disks and a power roller interposed between the input and output disks, the power roller including an inner race, an outer race and a plurality of rolling members interposed between the inner and outer races, the input and output disks and the inner race having rolling contact surfaces coming into rolling contact with each other via lubricating oil, the inner and outer races having rolling contact surfaces coming into rolling contact with the rolling members via lubricating oil, the rolling element comprising:

a nickel-based coat formed on at least one of the rolling contact surfaces, the nickel-based coat having a thickness ranging from 0.1 to 20  $\mu\text{m}$ ,

wherein a base metal of the rolling element which is obtained after forming the nickel-based coat thereon has a surface roughness of not more than 0.1 in terms of arithmetical mean roughness Ra at the rolling contact surface.

6-14. (Canceled)

15. (Previously Presented) A continuously variable transmission, comprising:  
input and output disks including a pair of first rolling contact surfaces opposed to each other, the input and output disks being arranged in a coaxial and spaced relation to each other;  
a power roller interposed between the input and output disks, the power roller comprising:

- a plurality of rolling members;
- an inner race including a second rolling contact surface coming into rolling contact with the pair of first rolling contact surfaces via lubricating oil; and
- an outer race opposed to the inner race,

the inner and outer races including a pair of third rolling contact surfaces coming into rolling contact with the plurality of rolling members via lubricating oil, and  
a nickel-based coat formed on at least one selected from the pair of first rolling contact surfaces, the second rolling contact surface and the pair of third rolling contact surfaces, the nickel-based coat having a thickness ranging from 0.1 to 20  $\mu\text{m}$ ,

wherein the nickel-based coat has a surface roughness of not more than 0.1 in terms of arithmetical mean roughness Ra.

16. (Previously Presented) A continuously variable transmission, comprising:  
input and output disks including a pair of first rolling contact surfaces opposed to each other, the input and output disks being arranged in a coaxial and spaced relation to each other;  
a power roller interposed between the input and output disks, the power roller comprising:

- a plurality of rolling members;

an inner race including a second rolling contact surface coming into rolling contact with the pair of first rolling contact surfaces via lubricating oil; and

an outer race opposed to the inner race,

the inner and outer races including a pair of third rolling contact surfaces coming into rolling contact with the plurality of rolling members via lubricating oil, and

a nickel-based coat formed on at least one selected from the pair of first rolling contact surfaces, the second rolling contact surface and the pair of third rolling contact surfaces, the nickel-based coat having a thickness ranging from 0.1 to 20  $\mu\text{m}$ ,

wherein a base metal of the rolling element which is obtained after forming the nickel-based coat thereon has a surface roughness of not more than 0.1 in terms of arithmetical mean roughness Ra at the rolling contact surface.

17-22. (Canceled)

23. (Withdrawn - Previously Presented) A process for producing a rolling element for a continuously variable transmission, including input and output disks and a power roller interposed between the input and output disks, the power roller including an inner race, an outer race and a plurality of rolling members interposed between the inner and outer races, the input and output disks and the inner race having rolling contact surfaces coming into rolling contact with each other via lubricating oil, the inner and outer races having rolling contact surfaces coming into rolling contact with the rolling members via lubricating oil, the rolling element including a nickel-based coat formed on at least one of the rolling contact surfaces, the process comprising:

subjecting the at least one of the rolling contact surfaces to one of strike plating, electroplating, combination of strike plating and electroplating, and combination of strike plating and electroless plating to form the nickel-based coat thereon,

wherein the nickel-based coat is formed to have a thickness ranging from 0.1 to 20  $\mu\text{m}$ , and

wherein the nickel-based coat is formed to have a surface roughness of not more than 0.1 in terms of arithmetical mean roughness Ra.

24. (Withdrawn) The process as claimed in claim 23, wherein the strike plating is conducted at a current density of  $0.1 \times 10^2$  to  $10 \times 10^2$  A/m<sup>2</sup>.

25. (Withdrawn) The process as claimed in claim 24, wherein the strike plating is conducted at a current density of  $0.1 \times 10^2$  to  $5 \times 10^2$  A/m<sup>2</sup>.

26. (Withdrawn) The process as claimed in claim 23, wherein the electroplating is conducted at a current density of  $0.1 \times 10^2$  to  $10 \times 10^2$  A/m<sup>2</sup>.

27. (Withdrawn) The process as claimed in claim 23, further comprising subjecting the at least one of the rolling contact surfaces to baking at a temperature of not more than 200°C after the one of strike plating, electroplating, combination of strike plating and electroplating, and combination of strike plating and electroless plating.

28. (Withdrawn) The process as claimed in claim 23, further comprising subjecting a workpiece to forging and rough machining to form a preform, subjecting the preform to surface-hardening, subjecting the surface-hardened preform to grinding and superfinishing to form the rolling contact surface.

29. (Withdrawn) The process as claimed in claim 28, wherein the surface-hardening comprises carbonitriding.

30. (Previously Presented) The rolling element as claimed in claim 4, wherein the thickness of the nickel-based coat is in a range of 0.1 to 10 μm.

31. (Previously Presented) The rolling element as claimed in claim 4, wherein the thickness of the nickel-based coat is in a range of 0.5 to 7 μm.

32. (Previously Presented) The rolling element as claimed in claim 4, wherein the nickel-based coat has a Vickers hardness of not less than Hv 300.

33. (Previously Presented) The rolling element as claimed in claim 4, wherein the nickel-based coat has a Vickers hardness ranging from Hv 300 to Hv 700.

34. (Previously Presented) The rolling element as claimed in claim 4, wherein the nickel-based coat contains phosphorus P in an amount of 0.1 to 12 mass percent.

35. (Previously Presented) The rolling element as claimed in claim 4, wherein the rolling contact surfaces of the inner and outer races comprise a bearing surface of each of the inner and outer races which is in contact with the rolling members, the nickel-based coat being formed on the bearing surface of each of the inner and outer races.

36. (Previously Presented) The rolling element as claimed in claim 4, wherein the rolling contact surfaces between the input and output disks and the inner race comprises a traction surface of the inner race which is in contact with the input and output disks, the nickel-based coat being formed on the traction surface of the inner race.

37. (Previously Presented) The rolling element as claimed in claim 4, wherein the rolling contact surfaces between the input and output disks and the inner race comprises a traction surface of each of the input and output disks which is in contact with the inner race of the power roller, the nickel-based coat being formed on the traction surface.

38. (Previously Presented) The continuously variable transmission as claimed in claim 15, wherein the thickness of the nickel-based coat is in a range of 0.1 to 10  $\mu\text{m}$ .

39. (Previously Presented) The continuously variable transmission as claimed in claim 15, wherein the thickness of the nickel-based coat is in a range of 0.5 to 7  $\mu\text{m}$ .

40. (Previously Presented) The continuously variable transmission as claimed in claim 15, wherein the nickel-based coat has a Vickers hardness of not less than Hv 300.

41. (Previously Presented) The continuously variable transmission as claimed in claim 15, wherein the nickel-based coat has a Vickers hardness ranging from Hv 300 to Hv 700.

42. (Previously Presented) The continuously variable transmission as claimed in claim 15, wherein the nickel-based coat contains phosphorus in an amount of 0.1 to 12 mass percent.

43. (Previously Presented) The continuously variable transmission as claimed in claim 15, wherein the nickel-based coat is formed on the pair of third rolling contact surfaces of the inner and outer races of the power roller.

44. (Previously Presented) The continuously variable transmission as claimed in claim 15, wherein the nickel-based coat is formed on the second rolling contact surface of the inner race of the power roller.

45. (Previously Presented) The continuously variable transmission as claimed in claim 15, wherein the nickel-based coat is formed on the pair of first rolling contact surfaces of the input and output disks.